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(71) Applicant (for all designated States except US): YEDA RESEARCH AND DEVELOPMENT CO. LTD. [IL/IL]; at the Weizmann Institute of Science, P.O. Box 95, 76 100 Rehovot (IL).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): COHEN, Irun, R. [IL/IL]; 11 Hankin Street, 76354 Rehovot (IL). DOUEK, Daniel [GB/US]; 5331 McKinley Street, Bethesda, MD 20814 (US). MIMRAN, Avishai [IL/IL]; 51 Meginey Ha-Galil Street, 76200 Rehovot (IL). CARMI, Pnina [IL/IL]; 3 Marton Street, 76292 Rehovot (IL). QUINTANA, Francisco, Javier [AR/AR]; 1831 1H Teniente Benjamin Matienzo, Capital Federal, 1426 (AR).
- (74) Agent: G.E. EHRLICH (1995) LTD.; 11 Menachem Begin Street, 52 521 Ramat Gan (IL).

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ANTIGEN RECEPTOR VARIABLE REGION TYPING

(57) Abstract: A method of typing a variable region of a specific variant of an antigen receptor chain is disclosed. The method comprises: (a) exposing a probe set to a sense or antisense strand of a polynucleotide encoding at least a portion of the variable region of the specific variant of the antigen receptor chain, wherein the probe set includes a plurality of probe molecules, wherein each probe molecule of the plurality of probe molecules is substantially complementary to a sense or antisense strand of a nucleic acid sequence region of a specific polynucleotide encoding a variant of the antigen receptor chain, the nucleic acid sequence region encoding a specific combination of at least two variable region segments of the antigen receptor chain; and (b) measuring a hybridization of each probe molecule of the plurality of probe molecules with the sense or antisense strand of the nucleic acid sequence region of the polynucleotide encoding at least a portion of the variable region of the specific variant of the antigen receptor chain, thereby typing the variable region of the specific variant of the antigen receptor chain.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/000972

A. CLA	SSIFICATION OF SUBJECT MATTER	<del></del>	·			
IPC:	C12Q 1/68( 2006.01)					
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C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
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<del></del>	Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.			
Х	KLEIN, U. et al. Gene Expression Profiling of B	Cell Chronic Lymphocytic Leukemia	1-11, 13, 14 and 16-18			
	Reveals a Homogeneous Phenotype Related to Mer	mory B Cells, J. Exp. Med. 03 December	·, ··, · · · · · · · · · · · · · · · ·			
	2001, Vol. 194, No. 11, pages 1625-1638, see entit	re document.				
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Further	documents are listed in the continuation of Box C.	See patent family annex.				
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		later document published after the interna	tional filing date or priority date			
"A" document	defining the general state of the art which is not considered to be of	and not in conflict with the application but principle or theory underlying the inventic	t cited to understand the			
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/000972

Box No. 1	2 of the 2 o		
This intern	ational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No. I	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet			
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4. A Remark on	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims, it is covered by claims Nos.: 1-18  Protest		

Form PCT/ISA/210 (continuation of first sheet(2)) (April 2005)

INTERNATIONAL SEARCH REPORT	PCT/IL04/000972			
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BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING This application contains the following inventions or groups of inventions which are concept under PCT Rule 13.1. In order for all inventions to be examined, the appro	e not so linked as to form a single concret insenti-			
Group I, claims 1-18, are drawn to a method for typing a variable region of a specific variant of an antigen receptor chain, comprising exposing a probe set to a polynucleotide.				
Group II, claims 19-31, are drawn to a probe array.				
Group III, claims 32-42, are drawn to a set of probes.				

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